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UNITED STATES
DEPARTMENT OF AGRICULTURE
DEPARTMENT CIRCULAR 291
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UNITED STATES GRADES FOR MILLED RICE.

RECOMMENDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.[1]

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Effective August 1, 1923.

Permissive standards for milled rice were recommended by the United States Department of Agriculture in 1918. Those standards were made mandatory by the United States Food Administration during the war.

In August, 1920, after extensive hearings, the Department of Agriculture revised the milled rice standards then in effect and recommended that the revised grades be adopted and used by all agencies in the handling of milled rice. The grades as revised and published in Department of Agriculture Circular No. 133 were generally adopted by various organizations in the rice industry and are now used almost universally by the trade. The widespread use of these grades has developed the need for some modification. This need for modification has been shown through written requests from the trade for certain revisions and by numerous interviews with individual members and organizations in the trade. The changes which have been requested and which are hereby adopted appear to be justified by the department's observation and experience with the grades.

The more important changes in this revision are the addition of an extra grade named "Extra Choice," which is inserted between the grades Fancy and Choice in the classes Long Milled Rice, Short Milled Rice, and Round Milled Rice, and the addition of three extra grades named "Extra Fancy", "Extra Choice," and "Medium" in the classes Second Head Milled Rice, Screenings Milled Rice, and

[1] This circular supersedes Markets Document No. 15 and Department of Agriculture Circular No. 133.

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Brewers Milled Rice. In addition, certain changes have been made in some of the factor limits for the various grades in each of the classes.

These grades as revised embody the recommendations of the Bureau of Agricultural Economics, United States Department of Agriculture, but are not fixed and established at this time under the United States grain standards act.

For the purposes of the United States grades for milled rice:

SECTION 1. *Milled rice.*—Milled rice shall be whole or broken kernels of rice grown in continental United States, from which the hulls, germs, and practically all of the bran layers have been removed, which may be either coated or uncoated, and which shall contain not more than 10 per cent of cereal grains including paddy grains, seeds, or other foreign material, either singly or in any combination.

SECTION 2. *Basis of determinations.*—Each determination of cereal grains, seeds, or other foreign material, heat-damaged kernels, temperature, odor, live weevils or other insects injurious to stored rice, moisture content, and general appearance shall be made on the basis of the grain including foreign material. All other determinations shall be made on the basis of the grain when free from foreign material.

SECTION 3. *Percentages.*—Percentages, except in the case of moisture, shall be percentages ascertained by weight.

SECTION 4. *Percentage of moisture.*—Percentage of moisture shall be that ascertained by the moisture tester and the method of use thereof described in Handbook U. S. G. S. A. Form 90, revised September, 1922, issued by the United States Department of Agriculture, Bureau of Agricultural Economics, or that ascertained by any device and method giving equivalent results.

SECTION 5. (*a*) *No. 5½ sieve.*—A metal sieve perforated with round holes 5½ sixty-fourths inch in diameter.

(*b*) *No. 6 sieve.*—A metal sieve perforated with round holes 6 sixty-fourths inch in diameter.

(*c*) *No. 6½ sieve.*—A metal sieve perforated with round holes 6½ sixty-fourths inch in diameter.

SECTION 6. *Coated rice.*—Coated rice shall be rice which has been coated with glucose and talc or any other substance.

Coated rice shall be graded and designated according to the grade requirements of the grades applicable to such rice if it were not coated, and there shall be added to and made a part of such grade designation the word "coated."

SECTION 7. *Damaged kernels.*—Damaged kernels shall be kernels and pieces of kernels of milled rice which have been distinctly damaged by water, insects, or by any other means. Sound double and sound broken kernels shall not be considered damaged kernels.

SECTION 8. *Heat-damaged kernels.*—Heat-damaged kernels shall be kernels and pieces of kernels of milled rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

SECTION 9. *Foreign material.*—Foreign material shall be paddy grains and any matter other than rice.

SECTION 10. *Cereal grains.*—Cereal grains shall be paddy grains (rough rice), barley, wheat, rye, emmer, spelt, einkorn, corn, grain sorghums, and oats only, and shall not include buckwheat, flaxseed, and wild oats.

SECTION 11. *Seeds.*—Seeds shall be grains, kernels, or seeds, either whole or broken, of any plant other than rice or other cereal grains.

SECTION 12. *Red rice.*—Red rice shall be kernels or pieces of kernels of milled rice which are distinctly red in color or have any appreciable amount of red bran thereon.

SECTION 13. *Broken kernels.*—Broken kernels shall be split kernels of milled rice, and pieces of kernels which are less than three-fourths of the length of the perfect kernel.

SECTION 14. *Chalky kernels.*—Chalky kernels shall be kernels and pieces of kernels of milled rice, one-half or more of which is chalky.

SECTION 15. *Weevily milled rice.*—Weevily milled rice shall be rice in which adult live weevils or other insects injurious to stored rice, or their larvae, or clusters of webby material, are found in a number exceeding 1 in 500 grams of milled rice.

Weevily milled rice shall be graded and designated according to the grade requirements of the grade applicable to such rice if it were not weevily, and there shall be added to and made a part of such grade designation the word "weevily." Information may also be shown on the inspection certificate as to the approximate degree of infestation.

CLASSES OF MILLED RICE.

SECTION 16. Milled rice shall be divided into classes as follows:

Class I. Long Milled Rice.

This class shall include all long-grain rices, such as those known commercially as Honduras, Carolina Gold, Carolina White, Fortuna, and Edith, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined.

Class II. Short Milled Rice.

This class shall include all short-grain rices, such as those known commercially as Blue Rose, Louisiana Pearl, and Early Prolific, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined.

Class III. Round Milled Rice.

This class shall include all round-grain rices, such as those known commercially as Japan or Japanese, including Wataribune, Shinriki, Butte, Colusa, Calora, Acadia, and Onsen, which contain more than 25 per cent of whole kernels, and may include not more than 10 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined.

Class IV. Mixed Milled Rice.

This class shall be a mixture of any two or more of classes I, II, and III, but which does not meet the requirements of any one of such classes.

Class V. Second Head Milled Rice.

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels, not more than 50 per cent of broken kernels which will pass readily through a No. 6½ sieve, and not more than 10 per cent of broken kernels which will pass readily through a No. 6 sieve.

Class VI. Screenings Milled Rice.

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels, which does not meet the requirements of size separations specified for the class Second Head Milled Rice, and which contains not more than 15 per cent of broken kernels which will pass readily through a No. 5½ sieve.

Class VII. Brewers Milled Rice.

This class shall consist of milled rice which contains not more than 25 per cent of whole kernels and contains more than 15 per cent of broken kernels which will pass readily through a No. 5½ sieve.

GRADE REQUIREMENTS.

Long Milled Rice.

SECTION 17. *Grades for Long Milled Rice.*—The class Long Milled Rice shall be divided into six grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Long

(*a*) shall be well milled,
(*b*) shall be white or creamy,
(*c*) may contain not more than 1 per cent of chalky kernels,
(*d*) may contain a total of not more than 10 per cent of broken kernels, which total of 10 per cent may include not more than 0.5 per cent of broken kernels which will pass readily through a No. 6 sieve.
(*e*) may contain a total of not more than 3 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams; which total of 3 may include not more than either 1 heat-damaged kernel or 1 seed,
(*f*) may contain not more than 0.5 per cent of damaged kernels and red rice, either singly or combined,
(*g*) may contain not more than 1 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined,
(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*i*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Long

(*a*) shall be well milled,
(*b*) shall be white, creamy, or grayish,
(*c*) may contain not more than 1.5 per cent of chalky kernels,
(*d*) may contain a total of not more than 15 per cent of broken kernels, which total of 15 per cent may include not more than 1 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 7 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 7 may include not more than 4 heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 1.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 2 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Long

(*a*) shall be reasonably well milled,

(*b*) shall be white, creamy, or grayish,

(*c*) may contain not more than 2 per cent of chalky kernels,

(*d*) may contain a total of not more than 20 per cent of broken kernels, which total of 20 per cent may include not more than 1.5 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 12 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of twelve may include not more than 7 heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 2 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 4 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Long

(*a*) shall be reasonably well milled,

(*b*) shall be white, creamy, or grayish, and may be slightly rosy,

(*c*) may contain not more than 3 per cent of chalky kernels,

(*d*) may contain a total of not more than 25 per cent of broken kernels, which total of 25 per cent may include not more than 2 per cent of broken kernels which will pass readily through a No. 6 sieve.

(*e*) may contain a total of not more than 18 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 18 may include not more than 10 heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 2.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 6 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Long

(*a*) may be of slightly damaged or red appearance,

(*b*) may contain not more than 6 per cent of chalky kernels,

(*c*) may contain a total of not more than 35 per cent of broken kernels, which total of 35 per cent may include not more than 4 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*d*) may contain a total of not more than 40 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 40 may include not more than 25 heat-damaged kernels and seeds, either singly or combined,

(*e*) may contain not more than 6 per cent of damaged kernels and red rice, either singly or combined,

(*f*) may contain not more than 10 per cent of whole kernels of rice of the classes Short Milled Rice and Round Milled Rice, either singly or combined,

(*g*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*h*) may contain not more than 14.5 per cent of moisture.

Sample Grade Long

shall be milled rice of the class Long Milled Rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

Short Milled Rice.

SECTION 18. *Grades for Short Milled Rice.*—The class Short Milled Rice shall be divided into six grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Short

(*a*) shall be well milled,

(*b*) shall be white or creamy,

(*c*) may contain not more than 1 per cent of chalky kernels,

(*d*) may contain a total of not more than 5 per cent of broken kernels, which total of 5 per cent may include not more than 0.5 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 3 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 3 may include not more than either 1 heat-damaged kernel or 1 seed,

(*f*) may contain not more than 0.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 1 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*i*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Short

(*a*) shall be well milled,
(*b*) shall be white, creamy, or grayish,
(*c*) may contain not more than 1.5 per cent of chalky kernels,
(*d*) may contain a total of not more than 10 per cent of broken kernels, which total of 10 per cent may include not more than 1 per cent of broken kernels which will pass readily through a No. 6 sieve,
(*e*) may contain a total of not more than 7 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 7 may include not more than 4 heat-damaged kernels and seeds, either singly or combined,
(*f*) may contain not more than 1.5 per cent of damaged kernels and red rice, either singly or combined,
(*g*) may contain not more than 2 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined,
(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*i*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Short

(*a*) shall be reasonably well milled,
(*b*) shall be white, creamy, or grayish,
(*c*) may contain not more than 2 per cent of chalky kernels,
(*d*) may contain a total of not more than 15 per cent of broken kernels, which total of 15 per cent may include not more than 1.5 per cent of broken kernels which will pass readily through a No. 6 sieve,
(*e*) may contain a total of not more than 12 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 12 may include not more than 7 heat-damaged kernels and seeds, either singly or combined,
(*f*) may contain not more than 2 per cent of damaged kernels and red rice, either singly or combined,
(*g*) may contain not more than 4 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined,
(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*i*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Short

(*a*) shall be reasonably well milled,
(*b*) shall be white, creamy, or grayish, and may be slightly rosy,
(*c*) may contain not more than 3 per cent of chalky kernels,
(*d*) may contain a total of not more than 20 per cent of broken kernels, which total of 20 per cent may include not more than 2 per cent of broken kernels which will readily pass through a No. 6 sieve,
(*e*) may contain a total of not more than 18 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500

grams, which total of 18 may include not more than ten heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 2.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 6 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Short

(*a*) may be of slightly damaged or red appearance,

(*b*) may contain not more than 6 per cent of chalky kernels,

(*c*) may contain a total of not more than 35 per cent of broken kernels, which total of 35 per cent may include not more than 4 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*d*) may contain a total of not more than 40 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 40 may include not more than 25 heat-damaged kernels and seeds, either singly or combined,

(*e*) may contain not more than 6 per cent of damaged kernels and red rice, either singly or combined,

(*f*) may contain not more than 10 per cent of whole kernels of rice of the classes Long Milled Rice and Round Milled Rice, either singly or combined,

(*g*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*h*) may contain not more than 14.5 per cent of moisture.

Sample Grade Short

shall be milled rice of the class Short Milled Rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

Round Milled Rice.

SECTION 19. *Grades for Round Milled Rice.*—The class Round Milled Rice shall be divided into 6 grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Round

(*a*) shall be well milled,

(*b*) shall be white or creamy,

(*c*) may contain not more than 2 per cent of chalky kernels,

(*d*) may contain a total of not more than 5 per cent of broken kernels, which total of 5 per cent may include not more than 0.5 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 3 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500

grams, which total of three may include not more than either 1 heat-damaged kernel or 1 seed,

(*f*) may contain not more than 0.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 1 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Round

(*a*) shall be well milled,

(*b*) shall be white, creamy, or grayish,

(*c*) may contain not more than 4 per cent of chalky kernels,

(*d*) may contain a total of not more than 10 per cent of broken kernels, which total of 10 per cent may include not more than 1 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 7 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 7 may include not more than 4 heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 1.5 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 2 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Round

(*a*) shall be reasonably well milled,

(*b*) shall be white, creamy, or grayish,

(*c*) may contain not more than 6 per cent of chalky kernels,

(*d*) may contain a total of not more than 15 per cent of broken kernels, which total of 15 per cent may include not more than 1.5 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*e*) may contain a total of not more than 12 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 12 may include not more than 7 heat-damaged kernels and seeds, either singly or combined,

(*f*) may contain not more than 2 per cent of damaged kernels and red rice, either singly or combined,

(*g*) may contain not more than 4 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined,

(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and

(*i*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Round

(*a*) shall be reasonably well milled,

(*b*) shall be white, creamy, or grayish, and may be slightly rosy,
(*c*) may contain not more than 8 per cent of chalky kernels,
(*d*) may contain a total of not more than 20 per cent of broken kernels, which total of 20 per cent may include not more than 2 per cent of broken kernels which will pass readily through a No. 6 sieve,
(*e*) may contain a total of not more than 18 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of eighteen may include not more than 10 heat-damaged kernels and seeds, either singly or combined,
(*f*) may contain not more than 2.5 per cent of damaged kernels and red rice, either singly or combined,
(*g*) may contain not more than 6 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined,
(*h*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*i*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Round

(*a*) may be of slightly damaged or red appearance,
(*b*) may contain not more than 10 per cent of chalky kernels,
(*c*) may contain a total of not more than 35 per cent of broken kernels, which total of 35 per cent may include not more than 4 per cent of broken kernels which will pass readily through a No. 6 sieve,
(*d*) may contain a total of not more than 40 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 40 may include not more than 25 heat-damaged kernels and seeds, either singly or combined,
(*e*) may contain not more than 6 per cent of damaged kernels and red rice, either singly or combined,
(*f*) may contain not more than 10 per cent of whole kernels of rice of the classes Long Milled Rice and Short Milled Rice, either singly or combined,
(*g*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains and seeds, and
(*h*) may contain not more than 14.5 per cent of moisture.

Sample Grade Round

shall be milled rice of the class Round Milled Rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

Mixed Milled Rice.

SECTION 20. *Grades for Mixed Milled Rice.*—Mixed milled rice shall be graded according to the grade requirements of the class of milled rice which predominates over each other class in the mixture; the grade designation of such rice shall include successively in the order named, the name of the grade or the number thereof, the word

"Mixed," and, in the order of its predominance, the name and approximate percentage of the whole kernels of each class of rice in the mixture.

Second Head Milled Rice.

SECTION 21. *Grades for Second Head Milled Rice.*—The class Second Head Milled Rice shall be divided into six grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Second Head

(*a*) shall be white, creamy, or grayish,

(*b*) may contain not more than 3 per cent of chalky kernels,

(*c*) may contain not more than 15 per cent of broken kernels which will pass readily through a No. 6½ sieve, or not more than 3 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*d*) may contain a total of not more than 20 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 20 may include not more than 15 heat-damaged kernels and seeds, either singly or combined,

(*e*) may contain not more than 1 per cent of damaged kernels and red rice, either singly or combined,

(*f*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains and seeds, and

(*g*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Second Head

(*a*) shall be white, creamy, or grayish,

(*b*) may contain not more than 5 per cent of chalky kernels,

(*c*) may contain not more than 25 per cent of broken kernels which will pass readily through a No. 6½ sieve, or not more than 5 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*d*) may contain a total of not more than 25 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 25 may include not more than 20 heat-damaged kernels and seeds, either singly or combined,

(*e*) may contain not more than 2 per cent of damaged kernels and red rice, either singly or combined,

(*f*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains and seeds, and

(*g*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Second Head

(*a*) shall be white, creamy, or grayish,

(*b*) may contain not more than 10 per cent of chalky kernels,

(*c*) may contain not more than 35 per cent of broken kernels which will pass readily through a 6½ sieve, or not more than 7 per cent of broken kernels which will pass readily through a No. 6 sieve,

(*d*) may contain a total of not more than 40 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 40 may include not more than 35 heat-damaged kernels and seeds, either singly or combined,

(*e*) may contain not more than 4 per cent of damaged kernels and red rice, either singly or combined,
(*f*) may contain not more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds, and
(*g*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Second Head
(*a*) may be of slightly damaged or slightly rosy appearance,
(*b*) may contain not more than 15 per cent of chalky kernels,
(*c*) may contain a total of not more than 60 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 60 may include not more than 50 heat-damaged kernels and seeds, either singly or combined,
(*d*) may contain not more than 6 per cent of damaged kernels and red rice, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Second Head
(*a*) may be of slightly damaged or red appearance,
(*b*) may contain not more than 20 per cent of chalky kernels,
(*c*) may contain a total of not more than 110 paddy grains, other cereal grains, seeds, and heat-damaged kernels in 500 grams, which total of 110 may include not more than 100 heat-damaged kernels and seeds, either singly or combined,
(*d*) may contain not more than 10 per cent of damaged kernels and red rice, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Sample Grade Second Head
shall be milled rice of the class Second Head Milled Rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

Screenings Milled Rice.

SECTION 22. *Grades for Screenings Milled Rice.*—The class Screenings Milled Rice shall be divided into six grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Screenings
(*a*) shall be white, creamy, or grayish,
(*b*) may contain not more than 5 per cent of chalky kernels,
(*c*) may contain not more than 20 per cent of broken kernels which will pass readily through a No. 6 sieve, or not more than 4 per cent of broken kernels which will pass readily through a No. 5½ sieve,
(*d*) may contain not more than 20 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,

(*e*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Screenings
(*a*) shall be white, creamy, or grayish,
(*b*) may contain not more than 8 per cent of chalky kernels,
(*c*) may contain not more than 30 per cent of broken kernels which will pass readily through a No. 6 sieve, or not more than 6 per cent of broken kernels which will pass readily through a No. 5½ sieve,
(*d*) may contain not more than 50 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Screenings
(*a*) shall be white, creamy, or grayish, and may be slightly rosy,
(*b*) may contain not more than 12 per cent of chalky kernels,
(*c*) may contain not more than 40 per cent of broken kernels which will pass readily through a No. 6 sieve, or not more than eight per cent of broken kernels which will pass readily through a No. 5½ sieve,
(*d*) may contain not more than 90 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Screenings
(*a*) may be of slightly damaged or rosy appearance,
(*b*) may contain not more than 20 per cent of chalky kernels,
(*c*) may contain not more than 50 per cent of broken kernels which will pass readily through a No. 6 sieve, or not more than 10 per cent of broken kernels which will pass readily through a No. 5½ sieve,
(*d*) may contain not more than 140 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Screenings
(*a*) may be of damaged or red appearance,
(*b*) may contain not more than 30 per cent of chalky kernels,
(*c*) may contain not more than 60 per cent of broken kernels which will pass readily through a No. 6 sieve, or not more than 15 per cent of broken kernels which will pass readily through a No. 5½ sieve,
(*d*) may contain not more than 250 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,
(*e*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*f*) may contain not more than 14.5 per cent of moisture.

Sample Grade Screenings
shall be milled rice of the class Screenings Milled Rice which does not come within the requirements of any of the grades

from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

Brewers Milled Rice.

SECTION 23. *Grades for Brewers Milled Rice.*—The class Brewers Milled Rice shall be divided into six grades, the designations and requirements of which shall be as specified in this section.

Extra Fancy (U. S. No. 1) Brewers

(*a*) shall be white, creamy, or grayish,
(*b*) may contain not more than 60 paddy grains, other cereal grains, and seeds in 500 grams, either singly or combined,
(*c*) may contain not more than 0.1 per cent of foreign material, excepting paddy grains, other cereal grains, and seeds, and
(*d*) may contain not more than 14.5 per cent of moisture.

Fancy (U. S. No. 2) Brewers

(*a*) shall be white, creamy, or grayish,
(*b*) may contain not more than 0.1 per cent of paddy grains, other cereal grains, and seeds, either singly or combined,
(*c*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*d*) may contain not more than 14.5 per cent of moisture.

Extra Choice (U. S. No. 3) Brewers

(*a*) shall be white, creamy, or grayish, and may be slightly rosy,
(*b*) may contain not more than 0.2 per cent of paddy grains, other cereal grains, and seeds, either singly or combined,
(*c*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*d*) may contain not more than 14.5 per cent of moisture.

Choice (U. S. No. 4) Brewers

(*a*) may be of slightly damaged or rosy appearance,
(*b*) may contain not more than 0.4 per cent of paddy grains, other cereal grains, and seeds, either singly or combined,
(*c*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds. and
(*d*) may contain not more than 14.5 per cent of moisture.

Medium (U. S. No. 5) Brewers

(*a*) may be of damaged or red appearance,
(*b*) may contain not more than 1.5 per cent of paddy grains, other cereal grains, and seeds, either singly or combined,
(*c*) may contain not more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds, and
(*d*) may contain not more than 14.5 per cent of moisture.

Sample Grade Brewers

shall be milled rice of the class Brewers Milled Rice which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality.

TABLE 1.—*Grade requirements for the classes Long, Short, and Round Milled Rice, tabulated and abridged.*

Class.	Grade.	Maximum limits of—							Color and general appearance.
		Cereal grains, seeds, and heat damage (number in 500 grams).		Red rice and damage other than heat (singly or combined).	Chalky kernels.	Broken kernels.		Other rices	
		Total.	Heat damage and seeds (singly or combined).			Total.	Through No. 6 sieve.		
		Number.	*Number.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	
Long	Extra Fancy (U. S. No. 1)	3	1	0.5	1.0	10	0.5	1	White or creamy.
	Fancy (U. S. No. 2)	7	4	1.5	1.5	15	1.0	2	White, creamy, or grayish.
	Extra Choice (U. S. No. 3)	12	7	2.0	2.0	20	1.5	4	Do.
	Choice (U. S. No. 4)	18	10	2.5	3.0	25	2.0	6	White, creamy, or grayish, and may be slightly rosy.
	Medium (U. S. No. 5)	40	25	6.0	6.0	35	4.0	10	May be of slightly damaged or red appearance.
	Sample Grade [1]							10	
Short	Extra Fancy (U. S. No. 1)	3	1	0.5	1.0	5	0.5	1	White or creamy.
	Fancy (U. S. No. 2)	7	4	1.5	1.5	10	1.0	2	White, creamy, or grayish.
	Extra Choice (U. S. No. 3)	12	7	2.0	2.0	15	1.5	4	Do.
	Choice (U. S. No. 4)	18	10	2.5	3.0	20	2.0	6	White, creamy or grayish, and may be slightly rosy.
	Medium (U. S. No. 5)	40	25	6.0	6.0	35	4.0	10	May be of slightly damaged or red appearance.
	Sample Grade [1]							10	
Round	Extra Fancy (U. S. No. 1)	3	1	0.5	2.0	5	0.5	1	White or creamy.
	Fancy (U. S. No. 2)	7	4	1.5	4.0	10	1.0	2	White, creamy, or grayish.
	Extra Choice (U. S. No. 3)	12	7	2.0	6.0	15	1.5	4	Do.
	Choice (U. S. No. 4)	18	10	2.5	8.0	20	2.0	6	White, creamy, or grayish, and may be slightly rosy.
	Medium (U. S. No. 5)	40	25	6.0	10.0	35	4.0	10	May be of slightly damaged or red appearance.
	Sample Grade [1]							10	
Mixed	(See footnote 3)								

The percentage of moisture in the grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

Rice of the grades Extra Fancy (U. S. No. 1) and Fancy (U. S. No. 2) in Classes I, II, III, and IV, shall be well milled. Rice of the grades Extra Choice (U. S. No. 3) and Choice (U. S. No. 4) in Classes I, II, III, and IV shall be reasonably well milled.

Mixed milled rice shall be graded according to the grade requirements of the class of milled rice which predominates over each other class in the mixture; the grade designations of such rice shall include, successively in the order named, the name of the grade, or the number thereof, the word "Mixed," and in the order of its predominance, the name and approximate percentage of the whole kernels of each class of rice in the mixture.

[1] Sample Grade shall be milled rice which does not come within the requirements of any of the other grades of the class to which it belongs, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

TABLE 2.—*Grade requirements for the class second head milled rice, tabulated and abridged.*

Grade.	Maximum limits of—						Color and general appearance.
	Cereal grains, seeds, and heat damage (number in 500 grams).		Red rice and damage other than heat (singly or combined).	Chalky kernels.	Broken kernels.		
	Total.	Heat damage and seeds (singly or combined).			Through No. 6 sieve.	Through No. 6½ sieve.	
	Number.	*Number.*	*Per cent.*	*Per cent.*	*Per cent.*	*Per cent.*	
Extra Fancy (U. S. No. 1).	20	15	1	3	3	15	White, creamy, or grayish.
Fancy (U. S. No. 2)	25	20	2	5	5	25	Do.
Extra Choice (U. S. No. 3).	40	35	4	10	7	35	Do.
Choice (U. S. No. 4)	60	50	6	15	10	50	May be of slightly damaged or slightly rosy appearance.
Medium (U. S. No. 5)	110	100	10	20	10	50	May be of slightly damaged or red appearance.
Sample Grade[1]					10	50	

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

[1] Sample grade shall be milled rice of the class Second Head which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

TABLE 3.—*Grade requirements for the class screenings milled rice, tabulated and abridged.*

Grade.	Maximum limits of—				Color and general appearance.
	Cereal grains and seeds (number in 500 grams).	Chalky kernels.	Broken kernels.		
			Through No. 5½ sieve.	Through No. 6 sieve.	
	Number.	*Per cent.*	*Per cent.*	*Per cent.*	
Extra Fancy (U. S. No. 1).	20	5	4	20	White, creamy, or grayish.
Fancy (U. S. No. 2)	50	8	6	30	Do.
Extra Choice (U. S. No. 3).	90	12	8	40	White, creamy or grayish, and may be slightly rosy.
Choice (U. S. No. 4)	140	20	10	50	May be of slightly damaged or rosy appearance.
Medium (U. S. No. 5)	250	30	15	60	May be of damaged or red appearance.
Sample Grade[1]			15		

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

[1] Sample grade shall be milled rice of the class Screenings which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

TABLE 4.—*Grade requirements for the class brewers milled rice, tabulated and abridged.*

Grade	Cereal grains and seeds (maximum limits).		Color and general appearance.
	Number in 500 grams.	Percentage.	
	Number.	*Percent.*	
Extra Fancy (U. S. No. 1)	60	.....	White, creamy, or grayish.
Fancy (U. S. No. 2)	.....	0.1	Do.
Extra Choice (U. S. No. 3)	.....	0.2	White, creamy or grayish, and may be slightly rosy.
Choice (U. S. No. 4)	.....	0.4	May be of slightly damaged or rosy appearance.
Medium (U. S. No. 5)	.....	1.5	May be of damaged or red appearance.
Sample Grade[1]	.....	.....	

The percentage of moisture in grades Extra Fancy (U. S. No. 1), Fancy (U. S. No. 2), Extra Choice (U. S. No. 3), Choice (U. S. No. 4), and Medium (U. S. No. 5) shall not exceed 14.5.

[1] Sample grade shall be milled rice of the class Brewers which does not come within the requirements of any of the grades from Extra Fancy (U. S. No. 1) to Medium (U. S. No. 5), inclusive, or which has any commercially objectionable foreign odor, or is musty, or sour, or is heating, or hot, or is of a badly damaged or extremely red appearance, or is otherwise of distinctly low quality, or contains more than 0.1 per cent of foreign material excepting paddy grains, other cereal grains, and seeds.

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